



The IARU Region 1 Executive Committee at the Raouche Rocks in Beirut, Lebanon. Fltr: Colin, G3PSM, Betty, F6IOC, Rod, W6ROD (IARU Secretary), Tafa, 6W1KI, Hans, PB2T, Ramon, XE1KK (Region 2 Secretary), Dennis, ZS4BS, Andy, HB9JOE, Niksa, 9A5W; Ulrich, DK4VW (Reg 1 HF Manager), Michael, OE1MCU (Reg 1 VHF/UHF Manager), Panayot, LZ1US, and Hani, OD5TE. (13 DXCC entities!)

7 and 8 May - Antique Wireless Association Valve QSO Party

22 May - ZS4 Sprint; 25 May - SARL 80 m Club Contest, CW

29 May - SARL Digital Contest

Find the rules in the 2011 SARL Contest Manual



Radio Technology in Action Symposium for Cape Town Next Saturday

The South African Radio League will present the first of its annual series of Radio Technology in Action Symposia in Cape Town on Saturday 7 May 2011. The event will be held at the Cape Peninsula University of Technology.

The programme features presentations for persons interested in radio and satellite technology as well as those who are just technology curious. The symposium starts at 09:00 with a presentation highlighting Amateur Radio as a valuable resource for young people as a primer for a career in communication and electronics, it affords older people the opportunity for further education to enhance their enjoyment of the Amateur Radio, which is generally accepted as the most rewarding of all scientific hobbies. For technicians in Industry it is a valuable resource for experiential learning. The presentation will be followed by a panel discussion on how amateur radio can benefit older persons when they retire from full time work.

The first technology presentation will focus on Field Programmable Gate Array (FPGA) devices including a simple explanation, its advantages, where it is used and how radio amateurs and electronic hobbyists can incorporate these devices in their projects.

What have you done today for Amateur Radio to make you proud?





A student presentation will focus on the development of two student satellites at CPUT

May 2011

- 1 – Worker's Day; **ZS3 Sprint**
- 2 – Public holiday
- 7 - RTA, Cape Town**
- 8 – Mother's Day**
- 7 and 8 - Antique Wireless Association Valve QSO Party;**
- 10-10 International Spring Digital Contest
- 14 and 15 - VOLTA WW RTTY Contest
- 19 - Radio Amateur Examination**
- 20 to 22 - Dayton Hamvention® 2011
- 21 and 22 - His Majesty the King of Spain CW Contest; Baltic Contest
- 22 - ZS4 Sprint**
- 25 - SARL 80 m Club Contest, CW; Africa Day**
- 28 and 29 - CQ WW WPX CW Contest
- 29 - SARL Digital Contest;**
- Comrades Marathon - Durban to Pietermaritzburg

including a visit to the laboratory areas where the satellites are being constructed. The project includes the building of two CubeSats, 1 measuring 10x10x10 cm and a three unit CubeSat.

Rapid Deployment of Amateur Radio, also called RaDAR, will focus on the deployment of amateur radio in field conditions focussing on how amateur radio can be deployed to provide communication when a disaster strikes.

There will also be an update on KletsKous and SAiSAT, two satellite projects recently launched by the South African Satellite Association (SA AMSAT).

Get the full programme on www.sarl.org.za and select RTA. Watch the promotional video clip from the same page of the home page at www.sarl.org.za.

I hope to see many radio amateurs from the Western Cape at the RTA. Last year, on the Friday before the RTA, there was a radio amateur on one of the repeaters saying he could not attend the RTA, his parrot had to go to the Vet on the Saturday. I hope the parrot has recovered and the radio amateur can attend the RTA this year!

Results of the March 2011 SARL VHF and UHF Contest

Congratulations to the following radio amateurs.

Overall results, digital modes

- 1st Derek, ZS5Y, 143 223 points
- 2nd Andre, ZS2ACP, 138 856 points
- 3rd Pierre, ZS6A, 113 758 points
- 4th Allan, ZS1LS, 101 352 points
- 5th Sian, ZS3SVD 82 328 points

Overall results, analogue

- 1st Derek, ZS5Y, 6 471 points
- 2nd Pierre, ZS6A, 1 979 points
- 3rd Sian, ZS3SVD, 470 points
- 4th Bert, ZS6HS, 248 points

Longest distance worked.

- 2 m Allan, ZS1LS 1 301 km
- 4 m Andre, ZS2ACP, 1 183 km
- 6 m Allan, ZS1LS 1 537 km

Divisional winners, digital.

- ZS1 - Allan, ZS1LS
- ZS2 - Andre, ZS2ACP
- ZS3 - Sian, ZS3SVD
- ZS4 - no entry
- ZS5 - Derek, ZS5Y
- ZS6 - Pierre, ZS6A

Divisional winners, analogue

- ZS1 - no entry
- ZS2 - no entry
- ZS3 - Sian, ZS3SVD
- ZS4 no entry
- ZS5 - Derek, ZS5Y
- ZS6 - Pierre, ZS6A

EME during the contest. EME does not counted towards the main contest.





Allan, ZS1LS, worked on 2 m raw score 788 923 points with the longest distance QSO at 13 976 km. And Derek, ZS5Y worked on 23 cm raw score 2 910 222 points with the longest distance at 10 428 km.

The winner of the "Lucky Draw" prize is Pierre, ZS6A.

Results of the SARL Autumn QRP Contest

5 logs were received for the contest held on 16 April 2011. The following statistics were derived from the logs:

Number of stations who participated - 56

Number of CW QSOs made - 11

Number of QSOs made - 85

Number of home stations - 3

Number of prefixes worked - 12

Number of field stations - 2

Number of phone QSOs made - 74

A special word of thanks to Eddie, ZS6BNE, who interrupted his journey back home from the SARL AGM, to setup a field station next to the road and managed to make a few contacts.

The results are as follows:

1st Pieter Jacobs, ZS6XT - 924 points

2nd Pierre van Deventer, ZS6A - 300 points

3rd Theunis Potgieter, ZS2EC - 210 points

4th Pieter Bosman, ZS3AOR - 160 points

5th Eddie Leighton, ZS6BNE - 36 points

The winner of the Lucky Draw prize is Pieter Bosman, ZS3AOR.

DXCC News

Bill Moore, NC1L, ARRL Awards Branch, reports that the following operation is approved for DXCC credit - 4A4A - Revillagigedo, 2011 Operation

SOTA reaches millionth QSO

Summits on the Air (SOTA) recently passed a significant milestone with its one-millionth QSO being made over the recent holiday period.

SOTA started in 2002 and has now grown into a worldwide award scheme with 55 associations across the world and around 44 000 qualifying summits. For more information on the scheme, check out the internet at www.sota.org.uk.

Radio Netherlands Worldwide moves Hörby SW transmitters to Madagascar

RNW (Radio Netherlands Worldwide) management has confirmed the purchase of the three 500 kW shortwave transmitters from the recently closed shortwave site at Hörby in Sweden. The transmitters are currently being dismantled for shipment to RNW's station in Madagascar.

Recently, RNW management announced that it intended to speed up the process of replacing shortwave with other distribution platforms, including the closure of its relay stations in Bonaire and Madagascar. The Bonaire facility is scheduled for closure at the end of October 2012, but no closure date has yet been decided for Madagascar.

However, late last year RNW decided it was time to replace the nearly 40-year-old Philips transmitters at Madagascar. Rather than invest in new transmitters, the opportunity was





taken to purchase the three ABB transmitters from the Swedish station at Hörby, which was closed at the end of last year. These were installed in 1993.

There are two reasons for buying these transmitters: Firstly, in order to guarantee the reliability of existing services from Madagascar it is necessary to replace the current 40-year-old transmitters as soon as possible, and secondly the "new" ABB transmitters are much more energy efficient, so that the relatively small investment will be recouped in a short time.

Favourite CQ books now available on CD

CQ Communications has announced that seven of its top-selling amateur radio books, including the very popular *Reflections III* by Walt Maxwell, W2DU, are now available on CD in addition to their print versions.

The books are:

Sloper Antennas, by Juergen A. Weigl, OE5CWL

Reflections III, by Walter Maxwell, W2DU

Understanding, Building and Using Baluns and Ununs, by Jerry Sevick, W2FMI

The New Shortwave Propagation Handbook, by Jacobs, Cohen and Rose (available May 16)

W6SAI HF Antenna Handbook, by Bill Orr, W6SAI;

Lew McCoy on Antennas, by Lew McCoy, W1ICP, and

The Quad Antenna, by Bob Haviland, W4MB.

The CDs are priced lower than their print versions - from \$14.95 to \$29.95 each. Customers have the option of purchasing the books in print, on CD version or in both formats (at a special combo price).

In addition, CQ is reprinting a favourite of "boat anchor" enthusiasts: *Heathkit: A Guide to the Amateur Radio Products*, by Chuck Penson, WA7ZZE. This richly-illustrated 328-page collection covers the history and details of each of the legendary kit-maker's ham radio transmitters, receivers, transceivers and accessories. The cost is \$32.95 and copies will be available as of May 16th. Pre-orders received by May 10th will receive a \$5 discount by using Promo Code SaveFive at checkout.

For more information or to order, visit the CQ store online at <http://store.cq-amateur-radio.com/StoreFront.bok>, or call our toll-free order line at (800) 853-9797.

African DX

Senegal, 6W. Fernando, EA1BT, will be active as 6W/EA1BT from Senegal between 4 and 12 May. No other details were provided. QSL via EA1BT. Watch the following Web site (still under construction) for updates and more details at <http://www.senegal2011.net>

African Islands on the Air

Herne Island, AF-068. Italian operators Leopoldo, I8LWL (5C2L), Alfredo, IK7JWX (5C2J), Ruggero, IK2PZC (5C2P), Simon, IZ7ATN (5C2SG), Mounaim, CN8QY and CN8QX will activate the rare Herne Island, located in the large bay of Dakhla, for one week in September. For updates, please visit the following Web page at <http://www.i8lwl.it>

Ascension Island, ZD8. German operators Wolf, DK1IP, Rainer, DL7OR, Gerd, DJ4KW, Arno, DL1CW, and Werner, DJ9KH, will be active as ZD8D from Garden Cottage (located 700 m up Green Mountain which is the oldest building on the island dating back to the 1820s), Ascension Island (AF-003), between 24 July and 9 August. Activity will be on 160 - 10 metres, mainly on





the Digital modes with some CW and SSB later. They will be using Elecraft K3s. The team plans to participate in the RSGB IOTA Contest (30 and 31 July). The team is seeking sponsors, especially for an amplifier.

Their Web page is now available online at <http://www.zd8d.de/index.php?home>

Special Event

Bulgaria, LZ2011. Members of the Bulgarian Federation of Radio Amateurs will activate special event station LZ2011KM between 1 and 31 May. Activity is to celebrate national "St. Kiril and Methodius Day" (creators of the Cyrillic alphabet). Operations will be on all bands and modes. QSL via LZ1BJ, direct or by the Bureau.

Azerbaijan. The radio amateurs in Azerbaijan celebrate the end of World War 2, 66 years ago by activating the special call sign 4JV3AM from 4 to 20 May. They are also remembering the war hero Mamish Abdullayev. QSL via RW6HS (direct only).

Italy. The ARI section Treviso issues the "Antonio Canova Award" which is dedicated to the well-known sculptor who was born in 1757 near Treviso. The special call sign II3AC will be activated during the month of May. QSL via IK3GES, direct or via bureau. More detailed information about the award can be found on <http://www.aritreviso.it/DiplomaCanova.html>

Kazakhstan. Kazakhstan is celebrating the 50th anniversary of manned space flight with several special calls. The prefixes UN50, UO50, UP50 and UQ50 are used until 31 May and following stations were announced to be active - UN50SK (home call UN7GWC), UO50G (UN2G), UP1ASTR (UN0GL), UP50F (UN7FW), UP50ASTR (UN6GK), UP50YG (UN7Z), UQ50G (UN6QC), UQ50L (UN7LZ) and UQ50P (UN7PL). They have also a special award and the rules can be found here http://un-dx.ucoz.com/index/yuri_gagarin/0-36

Monaco. The Monaco Telegraphy Group (3A-CW-G) celebrates its 20th anniversary. The special event station 3A2CWG is active during May. QSL via 3A2LF.

Russia. Russian radio amateurs are celebrating the end of World War 2 by activating R1945HS from 1 to 31 May. QSL via RW6HS (direct only).

Poland. Special event station SQ100MSC is active until 31 July to commemorate Maria Skodowska-Curie, the very first woman to win a Nobel Prize. She received the Nobel Prize in 1911 for chemistry. QSL direct via SP5XSL.

Israel. Special call signs 4X13AR and 4Z13AR will be in use on 10 - 26 May during the 13th edition of the Arthur Rubinstein International Piano Master Competition. Look for activity on 80 - 10 metres CW, SSB and RTTY. QSL via 4Z5NS.

Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 2 to 9 May 2011.

RSGB 80 m Club Championship, SSB
19:00 - 20:30 UTC, May 2
Mode: SSB

Bands: 80 m Only
Classes: (none)
Exchange: RS and serial no





QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: (see rules)
Submit logs by: 23:59 UTC 9 May 2011
Upload log at:
<http://www.vhfcc.org/cgi-bin/hfenter.pl>
Mail logs to: (none)
Find rules at:
<http://www.rsgbcc.org/hf/rules/2011/r80mc.c.shtml>

ARS Spartan Sprint
01:00 - 03:00 UTC, May 3
Mode: CW
Bands: 80, 40, 20, 15, 10 m
Classes: Skinny; Tubby
Max power: 5 watts
Exchange: RST, state, province or country and Power
Work stations: Once per band
Submit logs by: 5 May 2011
E-mail logs to:
spartansprint[at]yahoo[dot]com
Mail logs to: (none)
Find rules at:
http://adventure-ra-dio.org/wiki/index.php?title=Spartan_Sprint_Rules

MIE 33 Contest
11:00 - 15:00 UTC 4 May and 23:00 UTC 4 May to 03:00 UTC 5 May
Mode: CW, Phone
Bands: All, except WARC
Classes: Single Op - CW or mixed; Single Op Single Band - CW or mixed; Multi-Multi - CW or mixed; SWL
Exchange: Mie: RS(T), age and "ME"; non-Mie JA: RS(T), age and "MEJ"; non-Mie non-JA: RS(T) and age
Work stations: Once per band
QSO Points: Mie and non-Mie JA: 1 point per QSO; non-Mie non-JA: 1 point per QSO with Mie or non-Mie JA
Multipliers: Each age once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 31 May 2011

E-mail logs to: je2mde[at]jarl[dot]com
Mail logs to: JARL Mie Branch, c/o T. Tomioka, 2033 Hekicho, Tsu, Mie 514-1138, Japan
Find rules at:
http://www.ztv.ne.jp/isoda/33/annual/34/34_rule-e.html

NCCC Sprint Ladder
02:30 - 03:00 UTC 6 May
Mode: CW
Bands: 160, 80, 40, 20m
Classes: Single Op
Max power: 100 watts
Exchange: (see rules)
Work stations: Once per band
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 8 May 2011
E-mail logs to: (none)
Post log summary at:
<http://www.hornucopia.com/3830score/>
Mail logs to: (none)
Find rules at:
<http://www.ncccsprint.com/rules.html>

10-10 International Spring CW Contest
00:01 UTC 7 May to 23:59 UTC 8 May
Mode: CW
Bands: 10 m Only
Classes: Individual; Club; QRP
Max power: non-QRP: >5 watts; QRP: 5 watts
Exchange: Name, state, province or country and 10-10 number
QSO Points: 1 point per QSO with a non-member; 2 points per QSO with a 10-10 member
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 23 May 2011
E-mail logs to:
tentencontest[at]roadrunner[dot]com





Mail logs to: Dan Morris, KZ3T, 131 Valencia Lane, Statesville, NC 28625, USA

Find rules at:

http://www.ten-ten.org/Forms/QSOPartyRules_082710.pdf

VK/Trans-Tasman 80 m Contest, Phone

08:00 - 14:00 UTC 7 May

Mode: Phone

Bands: 80 m Only

Classes: Single Op; Single Op QRP; Multi-Op; SWL

Max power: non-QRP: 100 watts; QRP: 5 watts

Exchange: Serial no

Work stations: Once per hour

Score Calculation: (see rules)

Submit logs by: 07:00 UTC 28 May 2011

E-mail logs to: vktasman[at]hotmail[dot]com

Mail logs to: VK/trans-Tasman Contest, PO Box 21-363, Christchurch 8143, New Zealand

Find rules at:

<http://home.iprimus.com.au/vktasman/RULES.HTM>

7th Call Area QSO Party

13:00 UTC 7 May to 07:00 UTC 8 May

Mode: CW, Phone, Digital

Bands: 160, 80, 40, 20, 15, 10, 6 and 2 m

Classes: Single Op - CW, Phone, Digital or Mixed - QRP, Low or High; Multi-Single - QRP, Low or High; Multi-Multi; Single Op County Expedition; M/S County Expedition; M/M County Expedition; Mobile - CW, Phone, Digital or Mixed - QRP, Low or High

Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts

Exchange: 7th Area: RS(T) and 5-letter state/county code; non-7th Area: RS(T) and state, province or DX

Work stations: Once per band per mode per county

QSO Points: 2 points per SSB QSO; 3 points per CW/Digital QSO

Multipliers: 7th Area: Each state or province once; 7th Area: Each DXCC entity once (max of 10); non-7th Area: Each 7th area county once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 5 June 2011

E-mail logs to: 7qplogs[at]codxc[dot]org

Mail logs to: 7th Call Area QSO Party, c/o CODXC, 61255 Ferguson Rd, Bend, OR 97702, USA

Find rules at:

<http://www.codxc.com/new/Page.asp?Content=DRYLAND7S&Page=3>

Indiana QSO Party

16:00 UTC 7 May to 04:00 UTC 8 May

Mode: Phone, CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - High, Low or QRP; Multi-Single; Multi-Multi; Mobile; Portable; Rover

Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts

Exchange: IN: RS(T) and county; non-IN: W/VE: RS(T) and state or province; DX: RS(T) and "DX"

Work stations: Once per band per mode

QSO Points: 1 point per phone QSO; 2 points per CW QSO

Multipliers: IN Stations: Each IN county, state, province once per mode; non-IN Stations: Each IN county once per mode

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 15 June 2011

E-mail logs to: inqp[at]hdxcc[dot]org

Mail logs to: HDXCC, c/o Mike Goode, N9NS, 10340 Broadway, Indianapolis, IN 46280-1344, USA

Find rules at:

<http://www.hdxcc.org/inqp/rules.html>

New England QSO Party

20:00 UTC 7 May to 05:00 UTC 8 May and 13:00 - 24:00 UTC 8 May

Mode: Phone, CW/Digital

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, Low or High; Multi-Single; Mobile Single Op - QRP, Low or High; Mobile Multi-Single

Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts





Exchange: CT, ME, MA, NH, RI, VT: RS(T), county and state; non-NE: RS(T) and state, or province or "DX"

Work stations: Once per band per mode per county

QSO Points: 1 point per phone QSO; 2 points per CW/digital QSO

Multipliers: NE Stations: Each state, province, DXCC country once; non-NE Stations: Each NE county once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 7 June 2011

E-mail logs to: logs[at]neqp[dot]org

Mail logs to: NEQP, PO Box J, West Suffield, CT 06093, USA

Find rules at: <http://www.neqp.org/rules.html>

ARI International DX Contest

20:00 UTC 7 May to 19:59 UTC 8 May

Mode: Phone, CW, RTTY

Bands: 160 (no RTTY), 80, 40, 20, 15 and 10 m

Classes: Single Op CW; Single Op Phone; Single Op RTTY; Single Op Mixed; Multi-Single; SWL

Exchange: I: RS(T) and 2-letter province; non-I: RS(T) and Serial No.

Work stations: Once per mode per band

QSO Points: 0 points per QSO with same country; 1 point per QSO with different country same continent; 3 points per QSO with different continent; 10 points per QSO with I/ISO stations

Multipliers: Each Italian province once per band; Each DXCC country once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 7 June 2011

E-mail logs to: aricontest[at]kkn[dot]net

Mail logs to: (none)

Find rules at:

http://www.ari.it/images/stories/hf/ARI_International_DX_Contest_2011_Rules-1.pdf

SKCC Weekend Sprint

00:00 - 24:00 UTC 8 May

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 and 6 m

Classes: (none)

Exchange: RST, name and state, province or country and SKCC no or "NONE"

Work stations: Once per band

QSO Points: 1 point per QSO

Bonus Points: (see rules)

Multipliers: Each state, province or country once

Score Calculation: Total score = (total QSO points x total mults) and bonus points

Submit logs by: 13 May 2011

Post log summary at:

<http://www.skccgroup.com/sprint/wes/wes-submit.html>

Mail logs to: (none)

Find rules at:

<http://www.skccgroup.com/sprint/wes/>

NAQCC-EU Monthly Sprint

18:00 - 20:00 UTC 9 May

Mode: CW

Bands: 80, 40, 20 m

Classes: Single Op

Max power: 5 watts

Exchange: RST, country and NAQCC no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 2 points per QSO with member

Multipliers: Each country in Europe; First country in each continent worked other than Europe

Key Type Mult: 2 x if straight key, 1.5 x if bug, 1 x if other

Score Calculation: Total score = total QSO points x total mults x key type mult

Submit logs by: 20:00 UTC 12 May 2011

E-mail logs to: submitlog[at]naqcc-eu[dot]org

Upload log at:

<http://www.naqcc-eu.org/autologger/>

Mail logs to: M Ireland MW3YMY, Pen-y-Gadlas, Ffordd Bryniau, Meliden, Prestatyn, Denbighshire LL19 8RD, UK

Find rules at:

<http://naqcc-eu.org/SprintHelp/SprintRules.pdf>

Next Week's Contests





CWops Mini-CWT Test, 13:00 - 14:00 UTC, 19:00 - 20:00 UTC 11 May and 03:00 - 04:00 UTC 12 May

RSGB 80 m Club Championship, Data, 19:00 - 20:30 UTC 11 May

NCCC Sprint Ladder, 02:30 - 03:00 UTC 13 May

Slobodzansky Sprint Contest, 18:00 - 19:59 UTC 13 May (SSB); 20:00 - 21:59 UTC 13 May (CW)

FOC QSO Party, 00:00 - 23:59 UTC 14 May

EUCW Fraternizing CW QSO Party, 10:00 - 12:00 UTC 14 May and 18:00 - 20:00 UTC 15 May

CQ-M International DX Contest, 12:00 UTC 14 May to 11:59 UTC 15 May

VOLTA WW RTTY Contest, 12:00 UTC 14 May to 12:00 UTC 15 May

FISTS Spring Sprint, 17:00 - 21:00 UTC 14 May

Nevada Mustang Roundup, 17:00 UTC 14 May to 17:00 UTC 15 May

WAB LF Phone, 10:00 - 14:00 UTC 15 May

Run for the Bacon QRP Contest, 01:00 - 03:00 UTC 16 May

History This Week

A look back at events that made history this week - compiled by the Summerland Amateur Radio Club of Lismore, NSW and Dennis, ZS4BS. The week starting Monday 2 May 2011.

1780 - William Herschel discovers first binary star, Xi Ursae Majoris

1788 - The British Star and Evening Advertiser appears as the first evening newspaper in London

1814 - King Louis XVIII takes up the crown of France when Napoleon is banned to the island of Alba. His reign is interrupted in 1815 when Napoleon returns, but he regains the throne later in the year when Napoleon is defeated at Waterloo.

1830 - First regular steam train passenger service starts

1851 - Dr John Gorrie patents a "refrigeration machine"

1878 - Phonograph shown for first time at the Grand Opera House

1888 - George Eastman patents "Kodak box camera"

1896 - First horseless carriage show in London (featured 10 models)

1899 - The Lawn mower patented

1923 - Oakley Kelly and John McReady complete the first non-stop flight across the USA when they flew from New York to San Diego in 26 hours, 50 minutes and 38 seconds

1952 - The first passenger jet, a De Havilland Comet, with 36 passengers onboard departs from London to Johannesburg. The flight is scheduled for 23 hours and 40 minutes with stops in Rome, Beirut, Khartoum, Entebbe and Livingstone

1979 - Radio Shack releases the TRSDOS 2.3 computer

2000 - Conjunction of the Sun, Mercury, Venus, Mars, Jupiter, Saturn and the Moon

2005 - Chris Gayle, openings batsman of the West Indies, becomes the first batsman to make more than 300 runs in a test innings against South Africa, when he made 316 runs in a test in St John's, Antigua

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newsline, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News, Southgate ARC and Pete's DX Newsdesk.

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